CLAIMS

- 1. A fabric comprising a plurality of substantially parallel, coaxially aligned tow groups, each of said tow group having one or more tows wherein a portion of said tow groups contain two or more tows, and wherein the spacing between tows in a tow group is less than the spacing between adjacent tow groups.
- 2. The fabric of claim 1, wherein said adjacent tow groups contain an even number of tows.
- 3. The fabric of claim 1, wherein said adjacent tow groups contain an odd number of tow(s).
- 4. The fabric of claim 1, wherein said fabric comprises reinforced composite material.
- 5. The fabric of claim 1, wherein the spacing between the adjacent tow groups defines a flow channel.
- 6. The fabric of claim 1, wherein said tows are stitched together.
- 7. The fabric of claim 1, wherein the spacing between the adjacent tow groups is between about 0.155 to about 1.28 centimeters.
- 8. The fabric of claim 1, wherein said fabric is a crimp-free fabric.

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9. The fabric of claim 1, wherein said yield of each of said tows is between about 52 to about 450 yards/pound.

- 10. The fabric of claim 9, wherein said yield of each of said tows is between about 52 to about 350 yards/pound.
- 11. The fabric of claim 10, wherein said yield of each of said tows is between about 150 to about 220 yards/pound.
- 12. The fabric of claim 1, wherein said fabric is a unidirectional fabric.
- 13. The fabric of claim 1, wherein said fabric is a biaxial fabric.
- 14. The fabric of claim 1, wherein said fabric is a triaxial fabric.
- The fabric of claim 1, wherein said fabric is a quadaxial fabric.
- 16. The fabric of claim 1, wherein said tows comprise composite fibers selected from the group consisting of glass and thermoplastic.
- 17. A method of making a fabric comprising the steps of:
 - a. providing a plurality of substantially parallel tow groups, each of said tow group containing one or more tows wherein a portion of said tow groups contain two or more tows;
 - b. coaxially aligning said tow groups; and
- c. providing a space between said at least two of said tow groups, wherein the spacing between tows in a tow group is less than the spacing between adjacent tow groups.
- 18. The method of claim 17, wherein said plurality tow groups are stitched together.
 - 19. The method of claim 17, wherein said fabric is a crimp-free fabric.

- 20. The method of claim 17, wherein said yield of each of said tows is between about 150 to about 500 yards/pound.
- 21. The method of claim 20, wherein said yield of each of said tows is between about 150 to about 250 yards/pound.
- 22. The method of claim 21, wherein said yield of each of said tows is between about 190 to about 220 yards/pound.
- 23. The method of claim 17, wherein said fabric is a unidirectional fabric.
- 24. The method of claim 17, wherein said fabric is a biaxial fabric.
- 25. The method of claim 17, wherein said fabric is a triaxial fabric.
- 26. The method of claim 17, wherein said fabric is a quadaxial fabric.
- 27. The method of claim 17, wherein the spacing between the adjacent tow groups is between about 0.155 to about 1.28 centimeters
- 28. The method of claim 17, wherein the spacing between the adjacent tow groups defines a flow channel.
- 29. The method of claim 17, further comprising the step of infusing said fabric with resin using a resin transfer molding process.
- 30. The method of claim 17, further comprising the step of infusing said

 fabric with resin using a vacuum assisted resin transfer molding system.
- 31. The method of claim 30, wherein said fabric is infused with a resin selected from the group consisting of polyesters and copolyesters.

- 32. The method of claim 31, wherein said polyesters are selected from the group consisting of polyethylene terephthalate, polyamides, polyolefins, and polypropylene.
- 33. The method of claim 30, wherein said fabric is infused with a resin selected from the group consisting of polyesters and copolyesters.
- 34. The method of claim 33, wherein said polyesters are selected from the group consisting of polyethylene terephthalate, polyamides, polyolefins, and polypropylene.

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